

Zefeng (Daniel) Wang

No sponsorship required
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EXPERIENCE

Software Engineer @ Datadog

July 2022 – Present

- Accelerated delivery of Event Management product to public beta, fixing critical reliability issues blocking launch
- Researched, designed, and **individually implemented end to end testing suite** for complex, event driven system
- Introduced rate limiting in pipeline to protect core business logic and fixed browser tests to **reduce flakiness 90%**
- Implemented a dead-letter queue (Kafka) to improve reliability and facilitate replay pipeline in case of incident
- Worked with product/design stakeholders to redesign configuration UI, **increasing user retention 50%**
- Participated in on-call rotation, **leading response for dozens of incidents** and becoming expert for legacy system
- Enhanced culture by participating in processes such as mentoring new grads and leading new hire onboarding
- Initially worked on the Incident Management product, observing **~10% MoM user growth over 10 months**
- Launched workstreams feature to beta, with rapid adoption from internal/beta customers in high severity incidents
- Finisher on private visibility feature, updating ES schema, search facets, and maintaining backwards compatibility

Software Engineering Intern @ Tesla

September – December 2021

- Enhanced observability for multiple microservices (Go, Python) by implementing distributed tracing using Sentry to identify bottlenecks resulting in **significant (>50%) decreases in p95 run time** for various API endpoints
- Reduced friction in developer experience by implementing Tilt and Helm charts to run app in local K8s cluster
- Migrated event streaming from RabbitMQ to Kafka to improve scalability and reduce downtime for users

Engineering Summer Analyst @ Goldman Sachs

June – August 2021

- Productionized financial reporting program and conducted user acceptance testing with product stakeholders
- Leveraged caching and abstracted implementation to decrease flakiness and **improve calculator's speed by 30%**
- Revamped API queries to ensure data is more highly available using modeling/functional language (PURE)

Software Developer Co-op @ Intuit

May – December 2020

- Increased accessibility of metrics on the Observability team for QuickBooks Online product (Java Spring, Go)
- Created API for internal resource by implementing schema & CRUD functions for a MySQL database, configuring Elasticsearch index to improve search efficiency, and setting up infrastructure for Kubernetes cluster
- Improved readability of metrics using Micrometer and Hystrix (Spring), leveraging aspect-oriented programming

Backend Web Engineer @ BusRight, Inc

November 2019 – November 2020

- Developed password reset process (authn, email) and persistent notifications functionality (Firestore, SendGrid)
- Migrated backend from JavaScript to TypeScript to ensure code reliability and reduce technical debt
- Implemented Cloud Functions for daily data backup and profile picture actions triggered on user deletion/creation

PROJECTS

GratitudeNU (TypeScript, NextJS, NestJS, PostgreSQL)

- Developed full-stack application for users (200+) to play game together concurrently using server-sent events
- Implemented API using NestJS (Express.js) service/controller architecture to handle multiple users' interactions

MGH Video Journal (React Native, TypeScript)

- Built mobile app using React Native that allows study participants (500+) to record videos uploaded to Dropbox
- Leveraged Google Cloud Function to authenticate users and sends files from Cloud Storage via Dropbox API

SearchNEU (NodeJS, React, TypeScript)

- Improved loading times ~30x and enabled simpler, filtered search through custom React dropdown component
- Migrated no-SQL data store to PostgreSQL using ORM and refactored web scraper using Cheerio (jQuery)

COMPUTER KNOWLEDGE

- **Languages:** Golang, Python, JavaScript/TypeScript (NodeJS, React), Java, HTML, CSS
- **Datastores:** PostgreSQL, Kafka, Elasticsearch, Redis
- **Tools/Libraries:** Docker, Kubernetes (Google Cloud, AWS), *nix, Git, Bazel

EDUCATION

Northeastern University, Khoury College of Computer Sciences

Bachelor of Science in Computer Science & Business Administration (Magna Cum Laude)

Boston, MA

2022